

EO Back

(Page 1 of 2)

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-8-50
Relating to Certification of New Motor Vehicles

BAYERISCHE MOTOREN WERKE AG

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year Bayerische Motoren Werke AG exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

| <u>Engine Family</u> | <u>Displacement Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems (Special Features)</u> |
|----------------------|---|--|
| JBM5.0V5F67X | 5.0 (304.4) | Dual Heated Oxygen Sensors Dual Three-Way Catalysts (Electronic Port Fuel Injection) |

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per mile</u> |
|--|---|---|
| 0.41 | 7.0 | 0.7 |

The following are the certification emission values for this engine family:

| <u>Hydrocarbons Grams per Mile</u> | <u>Carbon Monoxide Grams per Mile</u> | <u>Nitrogen Oxides Grams per Mile</u> |
|--|---|---|
| 0.32 | 2.4 | 0.2 |

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 6th day of October, 1987.


K. D. Drachand, Chief
Mobile Source Division



ENGINEERING EMISSION CONTROL

17-30

Section 17.03.00

ARB SUPPLEMENTAL DATA SHEET

EO # A-8-50

Manufacturer BMWEngine Family JBM5.0V5F67XEvaporative Family EV 50Engine Type 4 cycle, V-60°Liters (CID) 5.0 (305.1)

ABBREVIATIONS

Ignition System

CA-Centrifugal Advance
ECU-Electronic Engine Control
EI-Electronic Ignition
ESAC-Electronic Spark Advance Control
VA-Vacuum Advance
VR-Vacuum Retard
BMCU-Bosch Motronic Control Unit
EID-Electronic Ignition Distributor

Exhaust Emission Control System

AIP-Air Injection-Pump
AIV-Air Injection-Valve
DBC-Dual Bed Catalyst
EGR-Exhaust Gas Recirculation
EIC-Electronic Injection Control
EM-Engine Modification
OC-Oxidation Catalyst
OS-Oxygen Sensor
HOS-Heated Oxygen Sensor
SPL-Smoke Puff Limiter or Throttle Delay
TOC-Trap Oxidizer, Continual
TOP-Trap Oxidizer, Periodical
TWC-Three Way Catalyst
WUOC-Warm-Up Oxidation Catalyst
WUTWC-Warm-Up Three-Way Catalyst

Special Features

CCV-Combustion Chamber Valve
CFI-Central Fuel Injection or Throttle Body Injection
DID-Diesel Injection-Direct
DIP-Diesel Injection-Prechamber
EFI-Electronic Fuel Injection
IC-Intercooler or Aftercooler
MFI-Mechanical Fuel Injection
OBD-On Board Diagnostic
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI
nV-nVenturi Carburetor
FI-Fuel Injection Valves
BMCU-Bosch Motronic Control Unit
AMM-Air Mass Meter

Vehicle Model(s): BMW 750i

DRIVE SYSTEM: Front engine, rear wheel drive

| | | | | | | |
|------------|------|--|--|--|--------------|----------------|
| ISSUE DATE | REV. | | | | SATISFACTORY | UNSATISFACTORY |
| 5/19/87 | DATE | | | | DATE | NAME |



ENGINEERING EMISSION CONTROL

17 - 31

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

☒ Passengers Cars ☐ Light-Duty Trucks ☐ Medium-Duty Vehicles☒ Gas ☐ Diesel

E.O.

A-8-50Manufacturer BMW Engine Family JBM5.OV5F67XLiter (CID) 4 988 cm Eng. Type 5.0/7 A4ECS (Special Features) 2 TWC, HOS, EIC (EFI) (OBD Exempt)

| Engine Code | Vehicle Model(s) | Trans. Type | Equiv. Test Weight | Ign. System Part No. | Fuel System Part No. | Catalyst Part No. |
|-------------|------------------|-------------|--------------------|----------------------|----------------------|-------------------|
| 5.0/7 A4 | BMW 750i | autom. | 4 500 lbs. | BMCU | BMCU | 1 711 661 |
| | | | | 0 261 200 156 | 0 261 200 156 | 1 711 662 |
| | | | | EID | AMM | |
| | | | | 1 235 522 365 | 0 280 212 010 | |
| | | | | 1 235 522 421 | FI | |
| | | | | | 0 280 150 715 | |

Comments: See the preceding page for abbreviations and evaporative emission family identification.
For dyno test HP settings refer to the test vehicle requirement list.

| | | | | | | |
|------------|------|--|--|--|--------------|----------------|
| ISSUE DATE | REV. | | | | SATISFACTORY | UNSATISFACTORY |
| 5/19/87 | DATE | | | | DATE | NAME |



TEST VEHICLE REQUIREMENTS

| Engine Family | Model Type | Equiv. Test Weight (lbs.) | Actual Road Load Power (hp) |
|---------------|------------|---------------------------|-----------------------------|
| JBM5.OV5F67X | 750i | 4500 | 8.2 |

(automatic transmission: economy program)

EO #A-8-50

| | | | | | | | |
|------------|------|--|--|--|--|--------------|----------------|
| ISSUE DATE | REV | | | | | SATISFACTORY | UNSATISFACTORY |
| 05/19/87 | DATE | | | | | | |



ENGINEERING EMISSION CONTROL

20-27

ED # A-8-50

Section 20.07.00 PARTS LIST

Part Number

Ignition System

Distributor

1 235 522 365

1 235 522 421

Spark plug

F8 LCR

Ignition coil

0 211 118 335

0 221 502 397

2051.0171.101

Fuel Injection System

Motronic control unit

0 261 200 156

EML-control unit

1 137 328 019

Air mass meter

0 280 212 010

Temperature sensor

0 280 130 056

Fuel injection valves

0 280 150 715

Fuel pressure regulator

0 280 160 500

Servo motor including

Throttle valve potentiometer

1 713 906

Exhaust System

Catalyst

1 711 661

1 711 662

Heated oxygen sensors

0 258 003 062

| | | | | | | |
|-----------------------|--------------|--|--|--|--------------|----------------|
| ISSUE DATE 5/19/87 | REV. DATE | | | | SATISFACTORY | UNSATISFACTORY |
| | | | | | DATE | NAME |